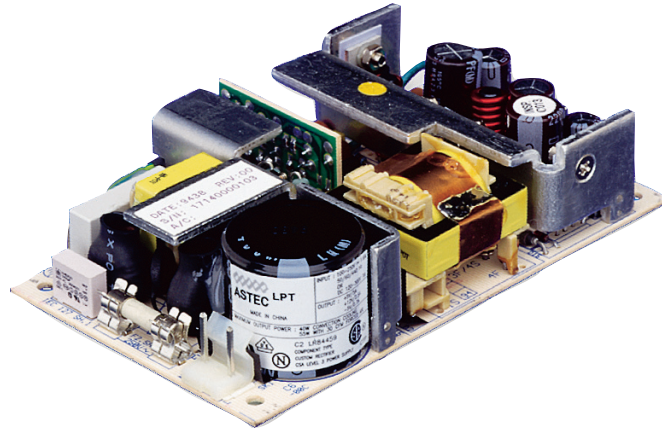


LPT40-M Series

40 Watts

Total Power: 40 - 55 Watts
Input Voltage: 85 - 264 VAC
120 - 300VDC
of Outputs: Triple



Special Features

- Universal input
- 3" x 5" footprint
- Less than 1U high
- Remote sense on main output
- Built-in EMI filter
- Low output ripple
- Adjustable 5V output
- Overvoltage protection
- Overload protection
- 110 KHz switching frequency
- LPX40 enclosure kit available

Safety

- **VDE** 0750/EN60601-1 (IEC601) 113769
- **UL** UL2601 E182560
- **CSA** CSA 22.2 No.601.1 LR109492
- **CE** Mark (LVD)

Electrical Specifications

Input

| | |
|--------------------------------|---|
| Input range: | 85-264 VAC 120-300 VDC |
| Frequency: | 47-440 Hz |
| Inrush current: | < 18A peak @ 115 VAC; < 36A peak @ 230 VAC, cold start @ 25 °C |
| Input current: | 1A max. (RMS) @ 115VAC |
| Efficiency: | 70% typical at full load (60% for LPT41) |
| EMI: | FCC Class A conducted; CISPR 22 Class A conducted EN55022 Class A conducted; VDE 0878 PT3 Class A conducted |
| Safety ground leakage current: | < 75 μ A @ 50/60 Hz, 264 VAC input |

Output

| | |
|-------------------------|---|
| Maximum Power: | 40W for convection; 55W with 30CFM forced air |
| Cross regulation: | \pm 2% on output 1; \pm 5% on outputs 2, 3 |
| Adjustment range: | -5, +10% minimum |
| Hold-up time: | 20ms @ 40W load, 115 VAC nominal line |
| Overload protection: | Short circuit protection on all outputs. Case overload protected @ 110% to 145% above peak rating |
| Overvoltage protection: | 5.7 to 6.7 VDC on the main output LPT41: 3.6 to 4.6VDC |
| Remote sense: | Compensates for 0.5 V lead drop min. Will operate without remote sense connected. Reverse connection protected. |



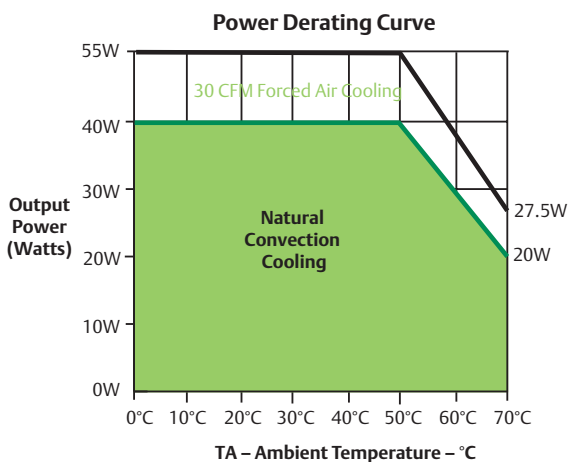
Environmental Specifications

| | |
|---------------------------------|---|
| Operating temperature: | 0° to 50 °C ambient derate each output at 2.5% per degree from 50° to 70 °C, -20 °C start up. |
| Electromagnetic susceptibility: | Designed to meet IEC 801, -2, -3, -4, -5, -6, Level 3 |
| Humidity: | Operating; non-condensing 5% to 95% |
| Vibration: | Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 0.75G peak 5 Hz to 500 Hz, operational |
| Storage temperature: | -40° to 85 °C |
| Temperature coefficient: | ±.04% per °C |
| MTBF demonstrated: | > 550,000 hours at full load and 25 °C ambient conditions |

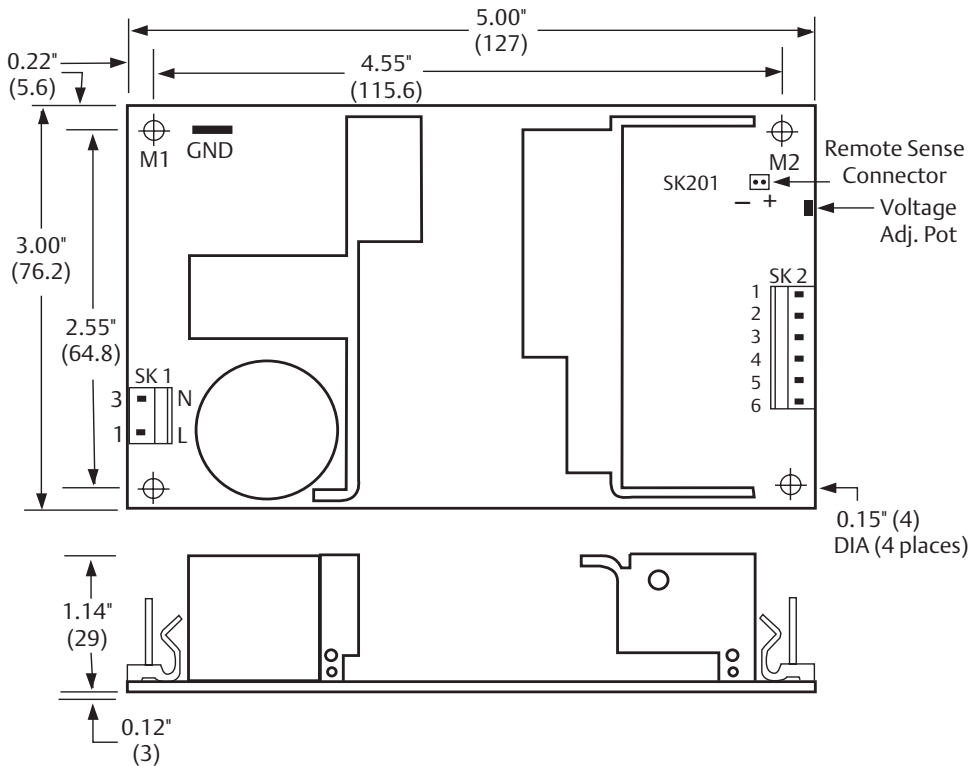
Ordering Information

| Model Number | Output Voltage | Minimum Load | Maximum Load with Convection cooling | Maximum Load with 30CFM Forced Air | Peak Load ¹ | Regulation ² | Ripple P/P (PARD) ³ |
|--------------|----------------|--------------|--------------------------------------|------------------------------------|------------------------|-------------------------|--------------------------------|
| LPT42-M | +5V | 0.4A | 4A | 5A | 7A | ±2% | 50mV |
| | +12V | 0.2A | 2A | 2.5A | 4A | ±5% | 120mV |
| | -12V | 0A | 0.5A | 0.7A | 1A | ±5% | 120mV |
| LPT45-M | +5V | 0.4A | 4A | 5A | 7A | ±2% | 50mV |
| | +15V | 0.2A | 2A | 2.5A | 3A | ±5% | 150mV |
| | -15V | 0A | 0.5A | 0.7A | 1A | ±5% | 150mV |

1. Peak current lasting < 30 seconds with a maximum 10% duty cycle.
2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
3. Peak-to-peak with 20 MHz bandwidth and 10 μF in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.
4. Minimum Loads are required.



Mechanical Drawing



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For global contact, visit:

www.PowerConversion.com
techsupport.embeddedpower@emerson.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Emerson Network Power assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

Pin Assignments

| Connector | LPT42-M | LPT45-M |
|-----------|---------|---------|
| SK1-1 | Line | Line |
| SK1-3 | Neutral | Neutral |
| SK2-1 | +12V | +15V |
| SK2-2 | +5V | +5V |
| SK2-3 | +5V | +5V |
| SK2-4 | Common | Common |
| SK2-5 | Common | Common |
| SK2-6 | -12V | -15V |
| SK201-1 | +Sense | +Sense |
| SK201-2 | -Sense | -Sense |

Mating Connectors

AC Input: Molex 09-50-8031 (USA)
09-91-0300 (UK)
PINS: 08-58-0111

DC Outputs: Molex 09-50-8061 (USA)
09-91-0600 (UK)
PINS: 08-58-0111

Remote Sense: Molex 22-01-2025
PINS: 08-52-0114

Emerson Network Power Connector Kit #70-841-006, includes all of the above

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ± 0.02 " (± 0.5 mm)
3. Mounting holes M1 and M2 should be grounded for EMI purposes.
4. Mounting hole M1 is safety ground connection.
5. Specifications are for convection rating at factory settings at 115 VAC input, 25 °C unless otherwise stated.
6. Warranty: 2 year
7. Weight: 0.5lbs/0.23kg

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- DC Power
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- Embedded Power
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- Outside Plant
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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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